

المملكة العربية السعودية وزارة التعليم العالي جامعة المجمعة كلية العلوم بالزلفي قسم الرياضيات

COURSE CLASSIFICATION FORM

Course Number/Name		Math(228+204) Subjects	s in Applied
Prepared by		Prof. Dr. Mohamed Abo	lel-Hakim Ahmed
Program Learning Outcomes	Levels* (0,1,2, 3,4,5)	Relevant Activities	Assessment Methods/Metrics
a1. Apply fundamentals and concepts of mathematics.	5	- Lectures - assignments - Oral discussion	 3 Midterm and final exam Home work
a2. Apply fundamentals and concepts General sciences and Computer skills.	4	- assignments - Oral discussion	 1 Midterm and final exam Home work
a3. Realize Social and ethical	1		Oral discussion
b1. Read and construct mathematical arguments and proofs.	4	- Lectures - assignments - Oral discussion	-Home work
b2. Apply critical thinking skills to solve problems that can be modeled mathematically.	5	 Lectures assignments Oral discussion 	• 3 Midterm and final exam+ Home work
c1. Work independently and within a team	4	Divided students into groups and using oral discussion homework	Home work
c2. Bear responsibility for different situations.	2		• Quizzes
c3. Realize codes of ethics and their importance.	0		
d1. Communicate a depth and breadth of mathematical knowledge, both orally and in writing.	4	LecturesassignmentsOral discussion	 3 Midterm + final exam Home work Quizzes
d2. Ability to Organize, connect and communicate mathematical and algorithmic ideas.	4	- Lectures - assignments -Oral discussion	Home workQuizzes
d3. Critically interpret numerical and graphical data.	4	- assignments on information data and represented data	Home workQuizzes
e1. Use computer and its applications as an office tool	3	- assignments on Logical expression	Home work Quizzes

* Please mark (or type) High (5), Medium-High (4), Medium (3), Low-Medium (2), Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.



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Course Objectives and Outcomes

Course Number: Math(228+204)

Course Name: Vectors Calculus

Prepared by: Prof. Dr. Mohamed Abdelhakim Ahmed Table 1: Relationship of course objectives/outcomes with PLO and ASIIN Criteria

Course Objectives:	Course Outcomes:	ASIIN	PLO
	Define and recognize the algebraic operations on the vectors in 2-3 dimension.	a, b, c, d, m	
Have the knowledge of vectors and algebraic operations on it.	Shown the ability of knowledge the physical meaning of the algebraic operations on the vectors.	b, c, m, n	
	Illustrate how to communicating with: Peers, Lecturers and Community.	l, n	
Have the knowledge of the	Define and recognize the equations of the straight line, plane, space	a, b, c, e, j	
equation of the straight line , plane, and the space.	Shown the ability of working independently and with groups.	n, m	
	Illustrate how take up responsibility.	l, n	
Studying the differential operator	Define and recognize the differential operator Del and the properties	a, b, f, h	
Del and the properties.	ability to write differential operator Del and the properties in any coordinates	a, g, j	
Studying the differential operator Del and their properties and how to	Define and recognize the relations and its properties	a, b, c, h	
find the relation between Del. In different coordinates.	Appraise how to Use the computer skills and library.	d, h, i	
unierent coordinates.	Illustrate how to Search the internet and using software programs to deal with problems	d, h	
Have the knowledge of grad, div,	Define and recognize the group theory	a, e, i	
curl and their properties.	interpret how to Know the group theory using the internet	k, h, g	
Studying the grad, div, curl and	Define and recognize the ring theory	a, i	
their properties and applications on it in different coordinates.	interpret how to Know the ring theory using the internet	h, I, k	
Studying the Gauss theory, Green theory and Stock theory as	Define and recognize the different theorems, Gauss, Green, Stock, and interpret how to know	a, g, h, i,	

Course Objectives and Outcomes		
application on Del.	these using the internet	k

 Table 2: Methods of assessment of course syllabus

Assessment Method	Ň	umber/T	уре		Instructor Assessed	TA/Grader Assessed	Peer/Self Assessed
Homework	5 homewor	5 homework assignments					
Mid Terms/Final Exams	2 mid-term	; 1 final e	exam		Х		
Quizzes	One biwee	kly			x		
Individual Projects	1-2 wks	3-4 wks	1/2 sem	Full sem			
Team Projects	1-2 wks	3-4 wks x	1/2 sem	Full sem x	Х		Х
Lab Assignments		I					
Computer Assignments							
Computer Tools Used							
Oral Presentations	One				X		Х
Written Reports	One				X		
Other	Design p	project (pi	roject bind	ler)	X		

0	utcome of ASIIN
a	Graduates have sound mathematical knowledge. They have a profound overview of the contents of fundamental mathematical disciplines and are able to identify their correlations.
b	Graduates are able to recognise mathematics-related problems, assess their solvability
	and solve them within a specified time frame.
c	Graduates have a basic ability to work in a scientific way. They are in particular able to
	formulate mathematical hypotheses and have an understanding of how such
	hypotheses can be verified or falsified using mathematical methods.
d	Graduates can flexibly apply mathematical methods of fundamental component areas of
	mathematics and are able to transfer the findings obtained to other component areas or
	applications.
e	Graduates have abstraction ability and are able to recognize analogies and basic patterns
f	Graduates are able to think in a conceptual, analytical and logical manner.
g	Graduates have an extensive comprehension of the significance of mathematical
	modelling. Are able to create mathematical models for mathematical problems as well
	as for problems in other areas of science or everyday life, and have a selection of
	problem solving strategies at their disposal.
h	Graduates can use basic methods of computer-aided simulation, mathematical software
	and programming to solve mathematical problems
i	Graduates are in a position to solve more extensive mathematical
j	Graduates can classify, recognize, formulate and solve mathematics-related problems
k	Graduates use electronic media competently
l	Graduates can implement lifelong learning strategies. A prerequisite for this is that the
	students are per-severing and that they have developed persistence.
m	Graduates can recognize, formulate, classify and solve problems in a mathematical
	context
n	Graduates can communicate, possibly also in a foreign language, and contribute their
	work effectively in teams



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Instructor Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the Mathematics program. Information will also be used for program accreditation purposes.

I. Program Learning Outcomes Evaluations

		emester F	Firs	st 1	434	4/1	435	5		
Instructor Pro	f. Mohamed Abdel-Hakim Ahmed									
The course listed above is designed Low, Low- Medium, Medium, Me	for students to achieve the following	g outcomes at	t a]	Not	t At	All	,			
Please mark (or type) High (5), M	Please mark (or type) High (5), Medium-High (4), Medium (3), Low-Medium (2), Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.									
Program Learning Outcome	Relevant Activitie	S	5	4	3	2	1	0		
a1. Apply fundamentals and concept of mathematics.	ts Lectures, Assignments, oral discu homework.	ission, and	5							
a2. Apply fundamentals and concept General sciences and Computer ski		ystems		4						
a3. Realize Social and ethical value	Assignments and oral discussion					2				
b1. Read and construct mathematic arguments and proofs.	Lectures, assignments, and Oral dis	scussion		4						
b2. Apply critical thinking skills to solve problems that can be modeled mathematically.	Lectures, assignments and Oral dis	scussion.	5							
c1. Work independently and within a team	Divided students into groups and u discussion with homework	ising oral		4						
c2. Bear responsibility for different situations.	Lectures, assignments, and oral dis	scussion			3					
c3. Realize codes of ethics and thei importance.	Lectures, Oral discussion					2				
d1. Communicate a depth and bread of mathematical knowledge, both orally and in writing.	th Lectures and assignments, and hon	nework		4						
d2. Ability to Organize, connect an communicate mathematical and algorithmic ideas.	Lectures, assignments, and Oral d	liscussion		4						
d3. Critically interpret numerical ar graphical data.	d Lectures, assignments, and Oral d	liscussion		4						
e1. Use computer and its applications as an office tool	Lectures, oral Discussions, and he	omework.			3					

II. Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course, please respond by circling the most appropriate number. Circle N/A for items that are not applicable, or if you have no opinion.

	A for items that are not applicable, or it	-	-							
Catalog										
Description	• Studying the equation of lines, pl									
1434-1435	Solving some problems on operation	tion of ve	ctors a	nd on e	equatio	ns of l	ines and			
	the plane									
	• Have the knowledge of the vector differential operator Del and the gradient-									
	divergence- curl. Vector integrat	divergence- curl. Vector integration and some theorems on it and also								
	solving some problems on it.									
	· · · · · · · · · · · · · · · · · · ·									
	Studying special orthogonal coordina									
Course	Math321+ Math 204	Circle (
Prerequisites:		1=Stro				, ,				
1	hat the catalog description (above) is	5	(4)	3	2	1	N/A			
accurate for this cour		5	(4)	3	2	1	1N/A			
	the course prerequisites (above) are	5	(A)	3	2	1	N/A			
appropriate for this cou		3	(4)	3	2	1	1N/A			
	any prerequisites you believe are not									
appropriate for this co	ourse.									
III. Textbook(s) :	and/or Lab Manuals (if applicable) Eval	uations:								
()	and/or Lab Manuals (if applicable) Eval H Anton:Calculus with Analytic 		One (5:	=Stror	ngly A	oree:				
Textbook(s)	H Anton:Calculus with Analytic	Circle (gree;				
Textbook(s) and/or Lab	H Anton:Calculus with Analytic Gometry 4 th Edition,John Wiley					gree;				
Textbook(s) and/or Lab Manuals (if	H Anton:Calculus with Analytic Gometry 4 th Edition,John Wiley &Sons,New York,1992	Circle (gree;				
Textbook(s) and/or Lab	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of 	Circle (gree;				
Textbook(s) and/or Lab Manuals (if	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th 	Circle (gree;				
Textbook(s) and/or Lab Manuals (if	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th Edition,John Wiley&Sons,New 	Circle (gree;				
Textbook(s) and/or Lab Manuals (if applicable):	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th Edition,John Wiley&Sons,New York,2006. 	Circle (1=Stron	ngly Di	isagree	2)					
Textbook(s) and/or Lab Manuals (if applicable): 3a. In general, do yo	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th Edition,John Wiley&Sons,New York,2006. 	Circle (gree;	N/A			
Textbook(s) and/or Lab Manuals (if applicable): 3a. In general, do yo textbook for this cou	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th Edition,John Wiley&Sons,New York,2006. bu believe this to be an appropriate urse? 	Circle (1=Stron (5)	ngly Di	isagree 3	2	1				
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Textbook(s) and/or Lab Manuals (if applicable): 3a. In general, do yo textbook for this cou 3b. Was the organiza course?	 H Anton:Calculus with Analytic Gometry 4th Edition,John Wiley &Sons,New York,1992 Salas,Hille,Etgen: Calculus of one and several Variaables,11th Edition,John Wiley&Sons,New York,2006. bu believe this to be an appropriate urse? 	Circle (1=Stron (5)	A (4)	isagree 3	2	1	N/A			
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SPSS, C+, FORTRAN, etc) available and accessible? 5e. Was adequate technical support available when needed?

Zulfi, College of Sciences

Mathematics Department

(1)

(N/A)

2

5

4

3 2



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Student Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the Mathematics program. Information will also be used for program accreditation purposes.

I. Program Learning Outcomes Evaluations

Course Number/Name	Math (228+204)Vectors Calculus	Semester	Second 1434/1435									
Instructor	Prof. Dr. Mohamed Abdel-											
	Hakim Ahmed											
Student Name		Student ID										
	designed for students to achieve the fol ium, Medium-High or High level.	lowing outcome	s at	a N	ot A	At A	All,					
	h (5), Medium-High (4), Medium (3), L to which you believe, as an instructor,							t				
outcomes in this course.	to which you believe, as an instructor,	the students hav	t av		vcu	, the	.SC					
Pro	ogram Learning Outcomes		5	4	3	2	1	0				
a1. Apply fundamentals	and concepts of mathematics.											
a2. Apply fundamentals	and concepts General sciences and C	Computer skills.										
a3. Realize Social and et	thical values.											
b1. Read and construct r	nathematical arguments and proofs.											
b2. Apply critical thinki mathematically.	ng skills to solve problems that can b	e modeled										
c1. Work independently a	nd within a team											
c2. Bear responsibility f	or different situations.											
c3. Realize codes of ethic	ics and their importance.											
d1. Communicate a dept orally and in writing.	h and breadth of mathematical know	ledge, both										
d2. Ability to Organize, algorithmic ideas.	connect and communicate mathemat	ical and										
d3. Critically interpret n	umerical and graphical data.											
e1. Use computer and its	s applications as an office tool											

Student Course Evaluation Form

II. Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course, please respond by circling the most appropriate number. Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1434-1435	 Mathematical Logic + Mathematical Logic + Mathematical Logic + Mathematical Logic + Mathematical Relations and their properties relation Groups and their properties Rings and their properties + p Field and their properties 	s + Sets an + Represe	nd their enting	prope relatio	ns + Eq	•	nce
Course Prerequisites:	PMTH 112 + PMTH127	Circle (1=Stroi				·ee;	
2a. Do you believe that accurate for this course	t the catalog description (above) is e?					N/A	
2b. Do you believe that the course prerequisites (above) are 5 appropriate for this course?				3	2	1	N/A
2c. If not, please list ar appropriate for this cou	ny prerequisites you believe are not irse.						

III. Textbook(s) and/or Lab Manuals (if applicable) Evaluations:

Textbook(s) and/or Lab Manuals (if applicable):	 Calculus with analytic Geometry. ByRoland E.Larson, Bruce H.Edwards, Robert P.Hostetler Kenneth H. Rosen: Discrete Mathematics and its application, Sixth Edition, Mc Graw Hill, 2006. 	Circle (1=Stroi				ŗree;	
	3a. In general, do you believe this to be an appropriate textbook for this course?				2	1	N/A
3b. Was the organization course?	5	4	3	2	1	N/A	
3c. Was the level of the	e textbook appropriate for this course?	5	4	3	2	1	N/A

IV. Computer usage (if applicable) Evaluations:

Computer usage (if applicable):	Circle One (5=Strongly Agree; 1=Strongly Disagree)						
4a. Was the use of computer well integrated with the course?	5	4	3	2	1	N/A	
4b. Was the computer lab adequately equipped with well- maintained and updated computers?	5 4 3 2 1				1	N/A	
4c. Was the computer lab equipped with sufficient number of computers?	5	5	5	2	1	N/A	
4d. Were the special software packages (MATLAB, SPSS, C+, FORTRAN, etc) available and accessible?	5	4	3	2	1	N/A	
4e. Was adequate technical support available when needed?	5	4	3	2	1	N/A	

				عة المجمعة	جام						
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Math	(228+204)		الترم الثاني	۱ ۲ ۳۰ ۲ ۲ رقم المادة	z y z M	الأول athematics		راسي	الفصل الد		
	(220+204) s Calculus		ادة	ريم المادة استنت المت			Haki	i	القسم استاذ المادة		
	0		ن عن التهائي	عدد الطلبة الغانبين		32		بسليسن	طلبة المسج		
I	5 F		اسبين	عدد الطلبة الرا العلامة الدنيا		27 3.30			لطلبة النــــ وسط الدرجا		
84	4.38%			، صرف ، عي نسبة النجاح		A +			ربية العليـــــــــــــــــــــــــــــــــــ		
I								التقدير	العلامة	الرقم	
	Percentage	SUM	Count	ТО	From	Average		A C	90 70	1 2	
	6.25	10	2	100	95	A+		B A	81 92	3 4	
	12.5	19	4	94	90	Α		C+ D+	77 66	5 6	
	6.25	9	2	89	85	B+		A+ B+	96 85	7 8	
Average	15.625	20	5	84	80	В		A B	91 82	9 10	
rag	15.625	17.5	5	79	75	C+		C+ F	77 49	11 12	
Ð	18.75	18	6	74	70	С		F B	40 82	13 14	
	6.25	5	2	69	65	D+		C C	70 71	15 16	
	3.125	2	1	64	60	D		A C+	92 75	17 18	
	15.625	5	5	59	0	F		B+ B	86 81	19 20	
<u>3.3</u>	<u>100</u>	106	<u>32</u>		T	otal Student	s	В	82	21	
<u> </u>	<u> </u>							A+	96	22	
								C+ F	77 46	23 24	
				6				C+	77	25	
		5	5			5		C C	71 70	26 27	
	4							F	70 47	27	
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A+	A B+	В	C+	C D+	D	F					